

California High-Speed Train Project



Request for Proposal  
for Design-Build Services

RFP No.: HSR 11-16

Book 3, Part D, Subpart 6  
CP01 Transportation Mitigation

Revision(s)	Date	Description
0	11/13/2012	Addendum 6
1	01/08/2013	Addendum 9
2	07/31/2013	Execution Version

		Required Mitigations			
		Related to Civil Construction <sup>2</sup>	Implementing Party and Monitoring/Reporting Party	Implementation / Reporting Schedule	Implementation Mechanism
Fresno Area (North of Clinton Ave)					
Between Herndon Ave and Shaw Ave (Intersections)					
1	Golden State Blvd/Santa Ana Ave	<b>TR MM#4</b> - Signalize intersection (meets signal warrant in 2035). <b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide dual left-turn lanes and one through lane. <b>TR MM#7</b> - Widen downstream on Santa Ana Avenue from one receiving lane to two receiving lanes to accommodate the dual left-turn lanes from northbound approach on Golden State Boulevard.	<b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor) <b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)  <b>TR MM #7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#4</b> - Annual intersection LOS analysis. Installation of signal when warrant criteria are met.  <b>TR MM #7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM #4</b> - MOU with City of Fresno  <b>TR MM #7, TR MM#8</b> - Contract Requirements/Specifications
2	Cornelia Ave/Shaw Ave	<b>TR MM#4</b> - Signalize intersection. <b>TR MM#5, TR MM#8</b> - Restripe eastbound approach to provide one left-turn lane, two through lanes, and one right-turn lane. <b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide two left-turn lanes, two through lanes and one right-turn lane. <b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide one left-turn lane, one through lane, and one channelized right-turn. <b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide one left-turn lane, one through lane, and one right-turn. <b>TR MM#7</b> - Widen downstream on Cornelia Avenue from one receiving lane to two receiving lanes to accommodate the second left-turn lane from westbound approach on Shaw Avenue.	<b>TR MM#4 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor <b>TR MM #5, TR MM#7, TR MM#8:</b> <b>Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#4:</b> Prepare construction management plan/maintain weekly reporting schedule  <b>TR MM #5, TR MM#7, TR MM#8:</b> Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM #4:</b> Contract Requirements/Specifications  <b>TR MM #5, TR MM#7, TR MM#8:</b> Contract Requirements/Specifications
5	Blythe Ave/Shaw Ave	<b>TR MM#7, TR MM#8</b> -Widen eastbound approach to provide a second left-turn lane.	<b>TR MM#7, TR MM#8: Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#7, TR MM#8:</b> Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#7, TR MM#8:</b> Contract Requirements/Specifications
7	Cornelia Ave/Golden State Blvd	<b>TR MM#4</b> - Signalize intersection (meets signal warrant in 2035).	<b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor) <b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)	<b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.	<b>TR MM #4:</b> MOU with City of Fresno
9	Figarden Dr/Bullard Ave	<b>TR MM#5</b> - Restripe westbound approach to provide two left-turn lanes, one through lane and one right-turn lane.	<b>TR MM #5: Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM #5:</b> Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM #5:</b> Contract Requirements/Specifications
14	Veterans Blvd/Bullard Ave	<b>TR MM#5</b> - Restripe eastbound approach to provide one left-turn lane and two right-turn lanes. <b>TR MM#5</b> - Restripe northbound approach to provide three left-turn lanes and one through lane. <b>TR MM#6</b> - Modify signal timing. <b>TR MM#10</b> - Grade separate through movement on Veterans Boulevard.	<b>TR MM #5, TR MM#6: Implementing Party:</b> City of Fresno <b>Monitoring/Reporting Party:</b> City of Fresno  <b>TR MM#10:</b> City of Fresno	<b>TR MM #5, TR MM#6:</b> City of Fresno  <b>TR MM#10:</b> City of Fresno	<b>TR MM #5, TR MM#6:</b> MOU with City of Fresno  <b>TR MM#10:</b> MOU with City of Fresno
15	Veterans Blvd/Golden State Blvd Connector	<b>TR MM#5</b> - Restripe eastbound approach to provide one left-turn lane and four through lanes. <b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide additional left-turn lane and a through lane. <b>TR MM#3</b> - Modify northbound and southbound right-turn as free movements.	<b>TR MM #3, TR MM#5, TR MM#7, TR MM#8: Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM #3, TR MM#5, TR MM#7, TR MM#8:</b> Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM #3, TR MM#5, TR MM#7, TR MM#8:</b> Contract Requirements/Specifications

CP1A and CP1B Transportation Mitigation<sup>1</sup>

		Required Mitigations				
		Related to Civil Construction <sup>2</sup>	Implementing Party and Monitoring/Reporting Party	Implementation / Reporting Schedule	Implementation Mechanism	
	Between Herndon Ave and Shaw Ave (Roadways)					
	-	Veterans Blvd between Golden State Blvd and Bullard Ave	TR MM#11 - Add one lane in each direction.	TR MM#11: City of Fresno	TR MM#11: City of Fresno	TR MM#11: MOU with City of Fresno
	SR 99 Realignment (Intersections)					
	5	Clinton Ave/Brawley Ave	TR MM#7, TR MM#8 - Widen southbound approach to provide second left-turn lane.	TR MM#7, TR MM#8 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#7, TR MM#8 - Caltrans	TR MM#7, TR MM#8 - MOU with Caltrans
	6	Clinton Ave/Marks Ave	TR MM#7, TR MM#8 - Widen northbound approach to provide exclusive northbound right-turn lane. TR MM#5 - Restripe southbound approach to include two left-turn lanes and one shared through-right-turn lane.	TR MM#5, TR MM#7, TR MM#8 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#5, TR MM#7, TR MM#8 - Caltrans	TR MM#5, TR MM#7, TR MM#8 - MOU with Caltrans
	8	Clinton Ave/SR 99 SB Ramps	TR MM#7, TR MM#8 - Widen eastbound approach to provide exclusive eastbound right-turn lane.	TR MM#7, TR MM#8 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#7, TR MM#8 - Caltrans	TR MM#7, TR MM#8 - MOU with Caltrans
	10	Clinton Ave/Weber Ave	TR MM#7, TR MM#8 - Widen southbound approach to provide second left-turn lane. TR MM#7, TR MM#8 - Widen eastbound approach to provide second left-turn lane.	TR MM#7, TR MM#8 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#7, TR MM#8 - Caltrans	TR MM#7, TR MM#8 - MOU with Caltrans
	14	Shields Ave/Brawley Ave	TR MM#4 - Signalize intersection.	TR MM#4 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#4 - Caltrans	TR MM#4 - MOU with Caltrans
	15	Dakota Ave/Brawley Ave	TR MM#4 - Signalize intersection. TR MM#5 - Restripe northbound approach to include exclusive left-turn lane and shared through-right-turn lane. TR MM#5 - Restripe westbound approach to include exclusive left-turn lane and shared through-right-turn lane. TR MM#7, TR MM#8 - Widen southbound approach to include exclusive left-turn, through and exclusive right-turn lanes. TR MM#7, TR MM#8 - Widen eastbound approach to include exclusive left-turn and shared through-right-turn lane.	TR MM#4 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans  TR MM#5, TR MM#7, TR MM#8 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#4 - Caltrans  TR MM#5, TR MM#7, TR MM#8 - Caltrans	TR MM#4 - MOU with Caltrans  TR MM#5, TR MM#7, TR MM#8 - MOU with Caltrans
	16	Ashlan Ave – SR 99 SB Ramps/Parkway Dr	TR MM#7, TR MM#8 - Add second northbound right-turn lane.	TR MM#7, TR MM#8 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#7, TR MM#8 - Caltrans	TR MM#7, TR MM#8 - MOU with Caltrans
	SR 99 Realignment (Freeway)					
	-	SR 99 SB, south of Clinton Ave to Olive Ave	TR MM#2 - Add SB Auxillary lane	TR MM#2 - Implementing Party: Caltrans Monitoring/Reporting Party: Caltrans	TR MM#2: Caltrans	TR MM#2: MOU with Caltrans
Fresno Area (South of Clinton) - Between McKinley Ave and SR 180						
Intersections						
5	W Olive Ave /SR 99 SB Ramps	TR MM#7, TR MM#8 - Widen southbound approach to provide additional left-turn lane.	TR MM#7, TR MM#8 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#7, TR MM#8 - Contract Requirements/Specifications	
6	W Olive Ave /SR 99 NB Ramps	TR MM#7, TR MM#8 - Widen northbound approach to provide exclusive left-turn lane	TR MM#7, TR MM#8 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#7, TR MM#8 - Contract Requirements/Specifications	

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CP1A and CP1B Transportation Mitigation<sup>1</sup>

			Required Mitigations			
			Related to Civil Construction <sup>2</sup>	Implementing Party and Monitoring/Reporting Party	Implementation / Reporting Schedule	Implementation Mechanism
	7	W Olive Ave/N West Ave	TR MM#4 - Signalize intersection.	TR MM#4 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#4 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#4 - Contract Requirements/Specifications
	10	W Belmont Ave /SR 99 SB Ramps	TR MM#4 - Signalize intersection.	TR MM#4 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#4 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#4 - Contract Requirements/Specifications
	11	W Belmont Ave /SR 99 NB Ramps	TR MM#4 - Signalize intersection.	TR MM#4 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#4 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#4 - Contract Requirements/Specifications
	Between McKinley Ave and SR 180 (Roadways)					
	-	W Olive Ave, between SR 99 Ramps and N West Ave	TR MM#11 - Add one lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	W Belmont Ave, between N Arthur Ave and SR 99 Ramps	TR MM#11 - Add one lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
Fresno Station (Between SR 180 and SR 41) <sup>3</sup>						
Intersections						
	7	E St/Ventura Ave	TR MM#4 - Signalize intersection (meets signal warrant by 2035).	TR MM#4 - Implementing Party: Authority and Contractor (post-construction contractor) Monitoring/Reporting Party: Authority and Contractor (post-construction contractor)	TR MM#4: Annual intersection LOS analysis. Installation of signal when warrant criteria are met.	TR MM #4: MOU with City of Fresno
	9	Broadway Ave/Ventura Ave	Tulare Street Underpass Option: TR MM#7, TR MM#8 - Widen the northbound approach to add one exclusive right-turn, one left-turn lane, and one through lane. TR MM#3 - Modify signal phasing to provide protected left-turn phases for the northbound and southbound approaches.  Tulare Street Overpass Option: TR MM#7, TR MM#8 - Widen the eastbound approach to add two exclusive left-turn lanes, two through lanes, and one exclusive right-turn lane. TR MM#3 - Modify signal phasing to provide protected left-turn phases for the northbound and southbound approaches.	TR MM#3 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor  TR MM#7, TR MM#8 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#3 - Prepare construction management plan/maintain weekly reporting schedule  TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#3 - Contract Requirements/Specifications  TR MM#7, TR MM#8 - Contract Requirements/Specifications
	23	F St/Tulare St (Tulare Street Underpass Option only)	TR MM#7, TR MM#8 - Widen the northbound approach to provide one exclusive left-turn and one shared through/right-turn lane. TR MM#7, TR MM#8 - Widen the southbound approaches to provide one exclusive left-turn lane, and one shared through/right-turn lane. TR MM#7, TR MM#8 - Widen the westbound approach to provide one exclusive right-turn lane, one exclusive left-turn lane, and one through lane. TR MM#3 - Modify signal phasing to provide protected left-turn phases for all approaches.	TR MM#3 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor  TR MM#7, TR MM#8 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#3 - Prepare construction management plan/maintain weekly reporting schedule  TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#3 - Contract Requirements/Specifications  TR MM#7, TR MM#8 - Contract Requirements/Specifications

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**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

			<b>Required Mitigations</b>			
			<b>Related to Civil Construction<sup>2</sup></b>	<b>Implementing Party and Monitoring/Reporting Party</b>	<b>Implementation / Reporting Schedule</b>	<b>Implementation Mechanism</b>
	25	H St/Tulare St (Tulare Street Underpass Option only)	<b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide one exclusive right-turn lane, one exclusive left-turn lane, and two through lanes. <b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide one exclusive right-turn lane, one exclusive left-turn lanes, and two through lanes. <b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide one exclusive right-turn lane, one exclusive left-turn lane, and two through lanes. <b>TR MM#3</b> - Modify signal phasing to provide protected left-turn phases for all approaches.	<b>TR MM#3 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor  <b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule  <b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#3</b> - Contract Requirements/Specifications  <b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	50	Van Ness Ave/Tuolumne St	<b>TR MM#7, TR MM#8</b> - Widen eastbound approach to provide one exclusive left-turn lane, one through lane and one exclusive right-turn lane	<b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	52	E St/Stanislaus St (Tulare Street Overpass Option only)	<b>TR MM#5, TR MM#8</b> - Restripe the westbound approach to provide one shared left/through lane, two through lanes, and one shared through/right-turn lane. <b>TR MM#5, TR MM#8</b> - Restripe the southbound approach to provide one shared left/through lane and one exclusive right-turn lane. <b>TR MM#3</b> - Modify signal phasing to provide split phasing on eastbound and westbound approaches.	<b>TR MM#3 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor  <b>TR MM#5, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule  <b>TR MM#5, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#3</b> - Contract Requirements/Specifications  <b>TR MM#5, TR MM#8</b> - Contract Requirements/Specifications
	53	Broadway St/Stanislaus St (Tulare Street Overpass Option only)	<b>TR MM#5, TR MM#8</b> - Restripe the southbound approach to provide shared left/through lane and one exclusive right-turn lane. <b>TR MM#3</b> - Modify signal phasing to provide permissive phase on northbound and southbound approaches.	<b>TR MM#3 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor  <b>TR MM#5, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule  <b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#3</b> - Contract Requirements/Specifications  <b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	54	Van Ness Ave/Stanislaus St (Tulare Street Underpass Option only)	<b>TR MM#7, TR MM#8</b> - Widen westbound approach to provide one exclusive left-turn lane, one through lane and one shared through/right-turn lane	<b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	58	H St/San Joaquin St	<b>TR MM#4</b> - Signalize intersection (meets signal warrant after 2035).	<b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor) <b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)	<b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.	<b>TR MM #4:</b> MOU with City of Fresno
	60	H St/Amador St	<b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035). <b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide one exclusive left-turn lane and one through lane.	<b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor) <b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)  <b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.  <b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM #4:</b> MOU with City of Fresno  <b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications

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CP1A and CP1B Transportation Mitigation<sup>1</sup>

			Required Mitigations			
			Related to Civil Construction <sup>2</sup>	Implementing Party and Monitoring/Reporting Party	Implementation / Reporting Schedule	Implementation Mechanism
	63	H Street/Divisadero Street	<b>TR MM#5, TR MM#8</b> - Restripe the westbound approach to provide one shared through/right/left-turn lane and two exclusive right-turn lanes. <b>TR MM#7, TR MM#8</b> - Widen the northbound approach to provide two exclusive left-turn lanes and one shared through/right-turn lane. <b>TR MM#7, TR MM#8</b> - Widen the southbound approach to provide additional left-turn lane (on H St).	<b>TR MM#5, TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#5, TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#5, TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	67	H St/Roosevelt St	<b>TR MM#7, TR MM#8</b> - Widen the westbound approach (H St) to provide one shared through/right-turn lane, one exclusive through lane, and one exclusive left-turn lane.	<b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	81	Broadway St/Amador St	<b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035).	<b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor) <b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)	<b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.	<b>TR MM #4:</b> MOU with City of Fresno
	83	Fresno St/F St	Tulare Street Underpass Option: <b>TR MM#5, TR MM#8</b> - Restripe the northbound approach to provide one exclusive left-turn lane, one exclusive through lane, and one shared through/right-turn lane. <b>TR MM#7, TR MM#8</b> - Widen the westbound approach to provide one exclusive left-turn lane, two through lanes, and one exclusive right-turn lane. <b>TR MM#7, TR MM#8</b> - Widen the eastbound approach to provide two exclusive left-turn lanes, one through lane, and one shared through/right-turn lane.  Tulare Street Overpass Option: <b>TR MM#5, TR MM#8</b> - Restripe the northbound approach to provide one exclusive left-turn lane, one exclusive through lane, and one shared through/right-turn lane. <b>TR MM#7, TR MM#8</b> - Widen the westbound approach to provide one exclusive left-turn lane, one through lane, one share through/right-turn lane, and one exclusive right-turn lane. <b>TR MM#7, TR MM#8</b> - Widen the eastbound approach to provide two exclusive left-turn lanes, one through lane, and one shared through/right-turn lane.	<b>TR MM#5, TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#5, TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#5, TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	84	G St/Mono St (Tulare Street Underpass Option only)	<b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035).	<b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor) <b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)	<b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.	<b>TR MM #4:</b> MOU with City of Fresno
	86	H St/Ventura St (Tulare St Underpass Option Only)	<b>TR MM#4</b> - Signalize intersection.	<b>TR MM#4 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#4:</b> Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM #4:</b> Contract Requirements/Specifications

HSR13-06 - EXECUTION VERSION

CP1A and CP1B Transportation Mitigation<sup>1</sup>

			Required Mitigations			
			Related to Civil Construction <sup>2</sup>	Implementing Party and Monitoring/Reporting Party	Implementation / Reporting Schedule	Implementation Mechanism
	92	S Van Ness Ave/E California Ave	<b>TR MM#4</b> - Signalize intersection (meets signal warrant by 2035). <b>TR MM#7, TR MM#8</b> - Widen northbound approach to provide exclusive left-turn lane. <b>TR MM#7, TR MM#8</b> - Widen southbound approach to provide exclusive left-turn lane. <b>TR MM#3</b> - Modify signal phasing on northbound and southbound approaches to provide protected plus permissive left-turn phasing.	<b>TR MM#3 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor  <b>TR MM#4 - Implementing Party:</b> Authority and Contractor (post-construction contractor) <b>Monitoring/Reporting Party:</b> Authority and Contractor (post-construction contractor)  <b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule  <b>TR MM#4:</b> Annual intersection LOS analysis. Installation of signal when warrant criteria are met.  <b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#3</b> - Contract Requirements/Specifications  <b>TR MM #4:</b> MOU with City of Fresno  <b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	96	Golden State Blvd/E Church Ave	<b>TR MM#7, TR MM#8</b> - Provide an exclusive right-turn lane in the northbound direction. <b>TR MM#3</b> - Modify signal phasing on all approaches to provide protected plus permissive left-turn phase.	<b>TR MM#3 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor  <b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#3</b> - Prepare construction management plan/maintain weekly reporting schedule  <b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#3</b> - Contract Requirements/Specifications  <b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	101	S East Ave/Golden State Blvd	<b>TR MM#6</b> - Increase cycle length (in the PM Peak Hour only).	<b>TR MM#6 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#6</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#6</b> -Contract Requirements/Specifications
	102	Golden State Blvd/E Jensen Ave	<b>TR MM#8</b> - Provide an exclusive right-turn lane for both northbound and southbound approaches.	<b>TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#8</b> - Contract Requirements/Specifications
	109	Stanislaus St/F St	(Tulare Street Overpass Option only) <b>TR MM#7, TR MM#8</b> - Widen the northbound approach to provide one exclusive left-turn lane and two exclusive right-turn lanes.	<b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications
	110	Tuolumne St/F St (Tulare Street Overpass Option only)	<b>TR MM#5, TR MM#8</b> - Restripe the eastbound approach to provide one exclusive left-turn lane, one shared left/through lane and one exclusive right-turn lane.	<b>TR MM#5, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#5, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#5, TR MM#8</b> - Contract Requirements/Specifications
	113	Stanislaus St/L St	<b>TR MM#7, TR MM#8</b> - Widen the northbound approach to provide one exclusive left-turn lane and one shared through/right-turn lane.	<b>TR MM#7, TR MM#8 - Implementing Party:</b> Contractor <b>Monitoring/Reporting Party:</b> Contractor	<b>TR MM#7, TR MM#8</b> - Prepare construction management plan/maintain weekly reporting schedule	<b>TR MM#7, TR MM#8</b> - Contract Requirements/Specifications

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**CP1A and CP1B Transportation Mitigation<sup>1</sup>**

			Required Mitigations			
			Related to Civil Construction <sup>2</sup>	Implementing Party and Monitoring/Reporting Party	Implementation / Reporting Schedule	Implementation Mechanism
	115	Stanislaus St/M St	TR MM#7, TR MM#8 - Widen the southbound approach to provide one shared left/through lane and one exclusive right-turn lane.	TR MM#7, TR MM#8 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#7, TR MM#8 - Contract Requirements/Specifications
	117	Stanislaus St/N St	TR MM#7, TR MM#8 - Widen the westbound approach to provide one exclusive left turn lane, one through lane and one shared through/right-turn lane.	TR MM#7, TR MM#8 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#7, TR MM#8 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#7, TR MM#8 - Contract Requirements/Specifications
	Roadways					
	-	H St Between East Divisadero St and Stanislaus St	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	Stanislaus St Between Broadway St and E St	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	Fresno St Between G St and SR 99 NB Ramps	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	Van Ness Ave Between Ventura Ave and SR 41 Ramps (Tulare Street Overpass Option only)	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	Stanislaus St Between E St and F St (Tulare Street Overpass Option only)	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	F St Between Stanislaus St and Tuolumne St (Tulare Street Overpass Option only)	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	Stanislaus St Between G St and H St (Tulare Street Overpass Option only)	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	Stanislaus St Between Broadway St and Fulton St	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications
	-	Stanislaus St Between L St and M St (Tulare Street Underpass Option only)	TR MM#11 - Add one travel lane in each direction.	TR MM#11 - Implementing Party: Contractor Monitoring/Reporting Party: Contractor	TR MM#11 - Prepare construction management plan/maintain weekly reporting schedule	TR MM#11 - Contract Requirements/Specifications

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Notes:

- 1 This table specifies which Merced Fresno transportation mitigation measures in the MMRP are required to be implemented by the Contractor for CP1A and CP1B
- 2 Mitigation measures indicated under this category occur with the roadway modifications due to the proposed HST alignment
- 3 In the vicinity of Fresno Station, all locations are impacted under both Tulare Street Underpass and Overpass options, unless otherwise specified